EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 439

DATE: AUGUST 1, 2017

PROJECT RP0210

The following classification changes will be effected by this Notice of Changes:

Action	**Subclass**	**Group(s)**
Symbols deleted:	G06F	21/558
Symbols newly created:	G06F	21/755
Title wording change:	G06F	21/556
New Definitions:	G06F	21/755
Modified Definitions:	G06F	21/556
	G06F	21/75
Deleted Definition:	G06F	21/558
Scheme Warning Notices to be added:	G06F	21/75
	G06F	21/755

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following *[Check the ones included]:*

1.   CLASSIFICATION SCHEME CHANGES
    ☒ A. New, Modified or Deleted Groups

    ☒ B. New, Modified or Deleted Warning Notices

    ☐ C. New, Modified or Deleted Note(s)

    ☐ D. New, Modified or Deleted Guidance Heading(s)

2.   DEFINITIONS (New or Modified)
    ☒ A. DEFINITIONS (Full definition template)

    ☒ B. DEFINITIONS (Definitions Quick Fix)

3.   ☒ REVISION CONCORDANCE LIST (RCL)

4.   ☒ CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5.   ☐ CROSS-REFERENCE LIST (CRL)

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1.   CLASSIFICATION SCHEME CHANGES

A.   New, Modified or Deleted Group(s)

SUBCLASS G06F - ELECTRICAL DIGITAL DATA PROCESSING (computers in which a part of the computation is effected hydraulically or pneumatically G06D; optically G06E; self-contained input or output peripheral equipment G06K; impedance networks using digital techniques H03H)

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G06F21/556	3	{involving covert channels, i.e. data leakage between processes (inhibiting the analysis of circuitry or operation with measures against power attack G06F21/755)}	
D	G06F21/558	4	{with measures against differential power attack}	\<administrative transfer to G06F21/755>
C	G06F21/75	3	by inhibiting the analysis of circuitry or operation	G06F21/75 G06F21/755
N	G06F21/755	4	{with measures against power attack}	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:
- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types except "D" which requires only a symbol.
- #"Transferred to" column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the "Transferred to" column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: "< administrative transfer to XX>" or "<administrative transfer to XX and YY simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be "invention information", unless otherwise indicated, and to 2000 series groups is assumed to be "additional information".

B. New Warning notices

SUBCLASS G06F - ELECTRICAL DIGITAL DATA PROCESSING (computers in which a part of the computation is effected hydraulically or pneumatically G06D; optically G06E; self-contained input or output peripheral equipment G06K; impedance networks using digital techniques H03H)

Type*	Location	Old Warning notice	New Warning notice
N	G06F21/75		Group G06F21/75 is impacted by reclassification into group G06F21/755. Groups G06F21/75 and G06F21/755 should be considered in order to perform a complete search.
N	G06F21/755		Group G06F21/755 is incomplete pending reclassification of documents from group G06F21/75. Groups G06F21/75 and G06F21/755 should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

2. A. DEFINITIONS (new)

<u>Insert</u> the following <u>new</u> definition:

G06F21/755

Definition statement

This place covers:
Software and hardware measures against monitoring of power consumption to obtain information about the system such as differential power attack or simple power attack.

Examples:

- Hide boot order.
- Multiple processors to hide power consumption.
- Algorithm design for general purpose processor.
- Use special hardware logic.
- Execute dummy instructions.
- Randomize execution flow.
- Change instruction clocking.
- Hide memory / register accesses.

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2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
G06F21/556	Limiting References	Software and hardware measures specifically against monitoring of power consumption (e.g. differential power attack) to obtain information about the system G06F 21/558	Delete the entire existing row.
G06F21/556	Limiting References		Insert the following new row: Inhibiting the analysis of circuitry or operation with measures against power attack G06F21/755
G06F21/558			Delete the entire definition
G06F21/75	Limiting References	Detection of power attacks G06F21/558 Countermeasures at the cryptographic algorithm level against power analysis attacks, e.g. modifying the S-Box layout in a DES algorithm H04L9/003	Delete the entire Limiting references section.
G06F21/75	Informative References		Insert the following new row in the Informative references table. Countermeasures at the cryptographic algorithm level against power analysis attacks, e.g. modifying the S-Box layout in a DES algorithm H04L9/003

NOTES:
- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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3.   REVISION CONCORDANCE LIST (RCL)

Type*	**From CPC Symbol (existing)**	**To CPC Symbol(s)**
D	G06F21/558	<administrative transfer to G06F21/755>
C	G06F21/75	G06F21/75 G06F21/755

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries.

NOTES:
- <u>Only</u> C, D, F and Q type entries are included in the table above.
- When multiple symbols are included in the "To" column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: "< administrative transfer to XX>" or "<administrative transfer to XX and YY simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be "invention information", unless otherwise indicated, and to 2000 series groups is assumed to be "additional information".

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4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

CPC	IPC	Action*
G06F21/755	G06F21/75	NEW
G06F21/558		DELETE

*Action column:
- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with "NEW."
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with "UPDATED."
- For a (D) CPC entry or indexing entry complete the Action column with "DELETE." IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with "NEW".
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with "CPCONLY" and complete the action column with "NEW".

NOTES:
- F symbols are not included in the CICL table above.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.